

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	12	koide-shohei.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/15 11:49
L2	15	fn3 same polypeptide same monobody	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/15 11:50
L3	14	fibronec\$7 same polypeptide same monobody	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/15 11:50

## Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: ssspta1649jxm

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* Welcome to STN International \* \* \* \* \* \* \* \* \* \* \*

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	FEB 25	CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered
NEWS	4	FEB 28	PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS	5	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	6	FEB 28	MEDLINE/LMEDLINE reloaded
NEWS	7	MAR 02	GBFULL: New full-text patent database on STN
NEWS	8	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	9	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	10	MAR 22	KOREAPAT now updated monthly; patent information enhanced
NEWS	11	MAR 22	Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS	12	MAR 22	PATDPASPC - New patent database available
NEWS	13	MAR 22	REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS	14	APR 04	EPFULL enhanced with additional patent information and new fields
NEWS	15	APR 04	EMBASE - Database reloaded and enhanced
NEWS EXPRESS			JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS INTER			General Internet Information
NEWS LOGIN			Welcome Banner and News Items
NEWS PHONE			Direct Dial and Telecommunication Network Access to STN
NEWS WWW			CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* STN Columbus \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

FILE 'HOME' ENTERED AT 12:20:01 ON 15 APR 2005

=> file medline biosis embase caplus  
COST IN U.S. DOLLARS

FILE 'MEDLINE' ENTERED AT 12:20:14 ON 15 APR 2005

FILE 'BIOSIS' ENTERED AT 12:20:14 ON 15 APR 2005  
Copyright (c) 2005 The Thomson Corporation

FILE 'EMBASE' ENTERED AT 12:20:14 ON 15 APR 2005  
COPYRIGHT (C) 2005 Elsevier Inc. All rights reserved.

FILE 'CAPLUS' ENTERED AT 12:20:14 ON 15 APR 2005  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

=>  
=> s koide shohei/au  
L1 81 KOIDE SHOHEI/AU  
  
=> s fibronec? (s) monobody (s) polypeptide  
L2 5 FIBRONEC? (S) MONOBODY (S) POLYPEPTIDE  
  
=> s fibronec? (s) monobody (s) protien  
L3 0 FIBRONEC? (S) MONOBODY (S) PROTIEN  
  
=> s fibronec? (s) monobody (s) protein  
L4 4 FIBRONEC? (S) MONOBODY (S) PROTEIN  
  
=> s 12 and 14  
L5 2 L2 AND L4  
  
=> d 15 total ibib kwic

L5 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2003:777271 CAPLUS  
DOCUMENT NUMBER: 139:291093  
TITLE: Production and identification of polypeptide  
monobodies which bind to target proteins and their  
uses  
INVENTOR(S): Koide, Shohei  
PATENT ASSIGNEE(S): USA  
SOURCE: U.S. Pat. Appl. Publ., 45 pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
US 2003186385	A1	20031002	US 2001-6760	20011119
PRIORITY APPLN. INFO.:			US 2000-249756P	P 20001117

AB The present invention relates generally to **polypeptide monobodies** (i.e., antibody mimics), and more particularly to **polypeptide monobodies** derived from the tenth **fibronectin** type III domain from human **fibronectin** (FNfn10). Fnfn10 monobodies and their engineered derivs. exhibit nuclear receptor binding activity, and in particular, binding specificity for the estrogen receptor  $\alpha$  (ER $\alpha$ ), and can probe conformational changes of ER $\alpha$  in living cells. Polypeptide monobody having target protein binding activity are identified by a yeast two-hybrid method comprising: providing a host cell comprising (1) a reporter gene under control of a 5' regulatory region operable in the host cell, (2) a first chimeric gene which encodes a first fusion polypeptide comprising a target protein, or fragment thereof, fused to a C-terminus of a DNA-binding domain which binds to the 5' regulatory region of the reporter gene, and (3) a second chimeric gene which encodes a second fusion polypeptide comprising a polypeptide monobody fused to a transcriptional activation domain; and detecting expression of the reporter gene, which indicates binding of the polypeptide monobody of the second fusion polypeptide to the target protein such that the transcriptional activation domain of the second fusion polypeptide is in sufficient proximity to the DNA-binding domain of the first fusion polypeptide to allow expression of the reporter gene. The ability of detecting conformational changes of proteins in the native environment should bridge the gap that currently exists between

high-resolution structural information obtained from in vitro techniques and functional information from cell biol. studies. The use of engineered monobody probes for conformational change allows discrimination of a wider variety of conformations than those than are responsible for interactions of the target protein with other natural proteins. Monobodies can also be used as modulators of biol. functions.

IT **Fibronectins**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(production and identification of **polypeptide monobodies** which bind to target **proteins** and their uses)

IT 50-27-1, Estriol 50-28-2, Estradiol, biological studies 56-53-1, Diethylstilbestrol 446-72-0, Genistein 68047-06-3, Hydroxytamoxifen 84449-90-1, Raloxifene 129453-61-8, ICI182780

RL: BSU (Biological study, unclassified); BIOL (Biological study) (**fibronectin monobody** binding to estrogen receptor in presence of; production and identification of **polypeptide monobodies** which bind to target **proteins** and their uses)

L5 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:8119 CAPLUS

DOCUMENT NUMBER: 130:80347

TITLE: Artificial antibody polypeptides

INVENTOR(S): Koide, Shohei

PATENT ASSIGNEE(S): Research Corporation Technologies, Inc., USA

SOURCE: PCT Int. Appl., 96 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9856915	A2	19981217	WO 1998-US12099	19980612
WO 9856915	A3	19990304		
W: AU, CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2293632	AA	19981217	CA 1998-2293632	19980612
AU 9879596	A1	19981230	AU 1998-79596	19980612
AU 729035	B2	20010125		
EP 985039	A2	20000315	EP 1998-930131	19980612
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE, IE				
JP 2001500531	T2	20010116	JP 1999-503195	19980612
JP 3614866	B2	20050126		
US 2002019517	A1	20020214	US 1998-96749	19980612
US 6673901	B2	20040106		
US 6462189	B1	20021008	US 2000-638202	20000811
US 6703199	B1	20040309	US 2000-637614	20000811
US 2003134386	A1	20030717	US 2002-165155	20020606
US 2003108948	A1	20030612	US 2002-174717	20020618
US 2003170753	A1	20030911	US 2002-190162	20020703
PRIORITY APPLN. INFO.:			US 1997-49410P	P 19970612
			US 1998-96749	A3 19980612
			WO 1998-US12099	W 19980612

AB A **fibronectin type III (Fn3) polypeptide monobody**, a nucleic acid mol. encoding said **monobody**, and a variegated nucleic acid library encoding said **monobody**, are provided by the invention. Also provided are methods of preparing a Fn3 polypeptide monobody, and kits to perform said methods. Further provided is a method of identifying the amino acid sequence of a polypeptide mol. capable of binding to a specific binding partner (SBP) so as to form a polypeptide:SSP complex, and a method of identifying the amino acid sequence of a polypeptide mol. capable of catalyzing a chemical reaction with a catalyzed rate constant, kcat, and an uncatalyzed rate constant, kuncat, such that the ratio of kcat/kuncat is greater than 10. Fn3 gene was

constructed and modified to include restriction sites. M13 and fd phage display libraries containing loop variegations in the AB, BC, CD, DE, EF OR FG loop were constructed. Ubiquitin-, fluorescein-, digoxigenin-, and transition state analog compound-binding monobodies were selected from polypeptides isolated from the display libraries.

IT Bacteriophage  
Coliphage M13  
Coliphage fd  
DNA sequences  
Dissociation constant  
Molecular cloning  
NMR (nuclear magnetic resonance)  
Plasmids  
    Protein sequences  
Reaction  
Transition state structure  
Virus  
    (artificial antibody polypeptides or monobodies  
        derived from human fibronectin type III gene protein  
    )

IT Fibronectins  
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);  
BUU (Biological use, unclassified); CAT (Catalyst use); PRP (Properties);  
BIOL (Biological study); PREP (Preparation); USES (Uses)  
    (artificial antibody polypeptides or monobodies  
        derived from human fibronectin type III gene protein  
    )

IT Physical properties  
    (consts., catalysis rate; artificial antibody polypeptides or  
        monobodies derived from human fibronectin type III  
        gene protein)

IT Gene, animal  
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);  
PRP (Properties); BIOL (Biological study); PREP (Preparation)  
    (fibronectin type III; artificial antibody  
        polypeptides or monobodies derived from human  
        fibronectin type III gene protein)

IT Conformation  
    (loop, protein; artificial antibody polypeptides or  
        monobodies derived from human fibronectin type III  
        gene protein)

IT Antibodies  
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);  
BUU (Biological use, unclassified); CAT (Catalyst use); PRP (Properties);  
BIOL (Biological study); PREP (Preparation); USES (Uses)  
    (monobody; artificial antibody polypeptides or  
        monobodies derived from human fibronectin type III  
        gene protein)

IT Conformation  
    (protein, binding; artificial antibody polypeptides  
        or monobodies derived from human fibronectin type  
        III gene protein)

IT Crystallography  
    (x-ray; artificial antibody polypeptides or  
        monobodies derived from human fibronectin type III  
        gene protein)

IT 218439-11-3  
RL: PRP (Properties)  
    (amino acid sequence; artificial antibody polypeptides or  
        monobodies derived from human fibronectin type III  
        gene protein)

IT 60267-61-0, Ubiquitin  
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL  
(Biological study); PROC (Process)  
    (artificial antibody polypeptides or monobodies  
        derived from human fibronectin type III gene protein  
    )

IT 1672-46-4, Digoxigenin    2321-07-5, Fluorescein.

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)  
(binding monobody; artificial antibody polypeptides or monobodies derived from human fibronectin type III gene protein)

IT 218439-04-4

RL: PRP (Properties)  
(nucleotide sequence; artificial antibody polypeptides or monobodies derived from human fibronectin type III gene protein)

=> d his

(FILE 'HOME' ENTERED AT 12:20:01 ON 15 APR 2005)

FILE 'MEDLINE, BIOSIS, EMBASE, CAPLUS' ENTERED AT 12:20:14 ON 15 APR 2005

L1 81 S KOIDE SHOHEI/AU

L2 5 S FIBRONEC? (S) MONOBODY (S) POLYPEPTIDE

L3 0 S FIBRONEC? (S) MONOBODY (S) PROTIEN

L4 4 S FIBRONEC? (S) MONOBODY (S) PROTEIN

L5 2 S L2 AND L4

=> d 12 total ibib

L2 ANSWER 1 OF 5 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2004:219959 BIOSIS  
DOCUMENT NUMBER: PREV200400223026  
TITLE: Artificial antibody polypeptides.  
AUTHOR(S): Koide, Shohei [Inventor, Reprint Author]  
CORPORATE SOURCE: ASSIGNEE: Research Corporation Technologies, Inc.  
PATENT INFORMATION: US 6703199 March 09, 2004  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Mar 9 2004) Vol. 1280, No. 2.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
ISSN: 0098-1133 (ISSN print).

DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 21 Apr 2004  
Last Updated on STN: 21 Apr 2004

L2 ANSWER 2 OF 5 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2004:90218 BIOSIS  
DOCUMENT NUMBER: PREV200400094770  
TITLE: Artificial antibody polypeptides.  
AUTHOR(S): Koide, Shohei [Inventor, Reprint Author]  
CORPORATE SOURCE: ASSIGNEE: Research Corporation Technologies, Inc.  
PATENT INFORMATION: US 6673901 January 06, 2004  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Jan 6 2004) Vol. 1278, No. 1.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
ISSN: 0098-1133 (ISSN print).

DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 11 Feb 2004  
Last Updated on STN: 11 Feb 2004

L2 ANSWER 3 OF 5 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2002:611212 BIOSIS  
DOCUMENT NUMBER: PREV200200611212  
TITLE: Nucleic acids encoding artificial antibody polypeptides.  
AUTHOR(S): Koide, Shohei [Inventor, Reprint author]  
CORPORATE SOURCE: Rochester, NY, USA  
ASSIGNEE: Research Corporation Technologies, Tucson, AZ,  
USA  
PATENT INFORMATION: US 6462189 October 08, 2002  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Oct. 8, 2002) Vol. 1263, No. 2.

DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 27 Nov 2002  
Last Updated on STN: 27 Nov 2002

L2 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2003:777271 CAPLUS  
DOCUMENT NUMBER: 139:291093  
TITLE: Production and identification of polypeptide monobodies which bind to target proteins and their uses  
INVENTOR(S): Koide, Shohei  
PATENT ASSIGNEE(S): USA  
SOURCE: U.S. Pat. Appl. Publ., 45 pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003186385	A1	20031002	US 2001-6760	20011119
			US 2000-249756P	P 20001117

L2 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1999:8119 CAPLUS  
DOCUMENT NUMBER: 130:80347  
TITLE: Artificial antibody polypeptides  
INVENTOR(S): Koide, Shohei  
PATENT ASSIGNEE(S): Research Corporation Technologies, Inc., USA  
SOURCE: PCT Int. Appl., 96 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9856915	A2	19981217	WO 1998-US12099	19980612
WO 9856915	A3	19990304		
W: AU, CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				
PT, SE				
CA 2293632	AA	19981217	CA 1998-2293632	19980612
AU 9879596	A1	19981230	AU 1998-79596	19980612
AU 729035	B2	20010125		
EP 985039	A2	20000315	EP 1998-930131	19980612
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE, IE				
JP 2001500531	T2	20010116	JP 1999-503195	19980612
JP 3614866	B2	20050126		
US 2002019517	A1	20020214	US 1998-96749	19980612
US 6673901	B2	20040106		
US 6462189	B1	20021008	US 2000-638202	20000811
US 6703199	B1	20040309	US 2000-637614	20000811
US 2003134386	A1	20030717	US 2002-165155	20020606
US 2003108948	A1	20030612	US 2002-174717	20020618
US 2003170753	A1	20030911	US 2002-190162	20020703
PRIORITY APPLN. INFO.:			US 1997-49410P	P 19970612
			US 1998-96749	A3 19980612
			WO 1998-US12099	W 19980612